

C2D2

(similar to the familiar R2D2 but made from a coffee container)

This is a Boe-BOT in a plastic Folger's coffee container.

The top is a bowl from a Dollar General store.





TheFolger's coffee container has been painted with white spray paint.

The bowl has been painted with blue spray paint.

The plastic was scuffed up with a sanding pad in an effort to get the paint to stay on a little better.

The paint scratches off pretty easy!

Maybe the model airplane plastic shrink film would work better.



Before the spray paint!

The homebrew IR sensor modules appear through openings cut on the lower half of the container grips.

Floral foam was cut to hold the servo.

Optical sensor lens with a Green LED in it.



Tanner Electronics has matching sets of these with IR LEDs and IR transistors in them.

A hack saw will remove the bottom so that an LED can go in it. Super bright green is in this one.

Shrink tubing or black tape covers everything but the lense in the end.

The CD has a slight ridge which is about 1.35 inches in diameter. A round servo horn can be cut down to this diameter (A turning lathe is preferred for this).

Clamp the servo horn to the CD, drill some holes, and use some tiny screws to hold them together.



This will also make a pretty nice wheel, if you add a 3-1/2 inch rubber band to the outside of the CD.



Round servo horn is fastened to the center of a CD. And the CD is glued in the bottom of the bowl.

Get the CD centered in the bowl for the best effect.

High temp hot melt glue seams to work pretty good for this.

One inch stand-offs are used in the lid of the Coffee container.

Don't cut into the edge of the lid.

The lid can hold the container on without additional fasteners if the integrity of the rim is not compromised





A view of the outside of the lid shows the slots for the wheels.

Note how the openings for the wheels do not go out to the edge of the lid.

The opening for the tailwheel is a little to large.







I have jumped the gun a little to show this off.

It still needs:

1. an external power switch.

2. wiring on the bread board for the LED and IR modules.

3. second stamp to control an audio amp and speaker for sounds? And to control the last servo?